

December 5, 1995

To: Manual Holders

Subject: Oconee SLC Revision

Please revise your SLC Manual according to instructions. This SLC 16.6.1 Containment Leakage Tests is being revised to reflect current plant configuration and to update testing information.

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Any questions concerning this revision may be directed to David Nix at 803-885-3634.

David Nix  
Regulatory Compliance

By: Conice Breazeale  
Regulatory Compliance

Oconee Nuclear Station  
Selected Licensee Commitments  
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16.6 ENGINEERED SAFETY FEATURES

16.6.1 CONTAINMENT LEAKAGE TESTS

COMMITMENT

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The local leak rate shall be measured for the containment penetrations listed in Table 16.6-1 in accordance with Technical Specification 4.4.1.2.

APPLICABILITY:

Applies to containment leakage

ACTION:

Not applicable

SURVEILLANCE:

See Technical Specification 4.4.1.2

BASES:

This commitment establishes the list of penetrations that require local leak rate testing in accordance with Technical Specification 4.4.1.2. This list was removed from the Technical Specifications in accordance with the guidance in NRC Generic Letter 91-08.

REFERENCES:

1. 10 CFR 50, Appendix J
2. NRC Generic Letter 91-08
3. FSAR Topic Nos. 3.8.1.7.4, 6.2.3, and 6.2.4.

STATION MANAGER APPROVAL

*B. W. Pule*

DATE 11-28-95

TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
1	Pressurizer liquid sample line (Unit 1 only)	Note 1	Type C	Note 2, 7b
2	OTSG A Sample line	Note 1	Type C	Note 7b
3	Component Cooling inlet line	Note 1	Type C	Note 3, 7d
4	OTSG B drain line	Note 1	None required	Note 7b
5a	RB normal sump drain line	Note 10	Type C	Note 7a, 7b, 9
5b	Post Accident Liquid Sample Line	Note 1	None Required	Note 2, 7c
6	Letdown line	Note 1	Type C	Note 2, 7b
7	RC Pump seal return line	Note 1	Type C	Note 7b, 9(Units 2 & 3) Note 3, 7b, 9 (Unit 1)
8a	Pressurizer Aux. Spray Line	Not Vented	None Required	Note 5, 7d
8b	Loop A nozzle warming line	Not Vented	None required	Note 5, 7d
9	RCS normal makeup line and HP injection 'A' loop	Not Vented	None required	Note 5
10a	RC Pump B1 seal injection	Not Vented	Type C	Note 5, 7d, 9, 12

TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
10b	RC Pump B2 seal injection	Not Vented	Type C	Note 5, 7d, 9, 12
11a	Fuel transfer tube cover	Not Vented	Type B	Note 6a, 11
11b	RC Makeup Pump suction	Note 1	Type C	Note 2
11c	Fuel transfer tube drain	Not Vented	Type C	Note 5
12a	Fuel transfer tube cover	Not Vented	Type B	Note 6a, 11
12b	RC Makeup Pump discharge	Note 1	Type C	Note 2
13	RB Spray inlet line	Not Vented	None required	Note 5, 7d
14	RB Spray inlet line	Not Vented	None required	Note 5, 7d
15	LPI and DHR inlet line	Not Vented	None required	Note 4, 5
16	LPI and DHR inlet line	Not Vented	None required	Note 4, 5
17	OTSG B Emergency FDW line	Not Vented	None required	Note 5, 7d
18	Quench tank vent line	Note 1	Type C	Note 3, 7b, 9
19	RB purge inlet line	Vented	Type C	Note 7a, 7b, 9

TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
20	RB purge outlet line	Vented	Type C	Note 7a, 7b, 9
21	LPSW to RC Pump motors and lube oil coolers inlet	Not Vented	None required	Note 7b, 9
22	LPSW from RC Pump motors and lube oil coolers outlet	Not Vented	Type C	Note 7b
23a	RC Pump A1 seal injection	Not Vented	Type C	Note 5, 7d, 9
23b	RC Pump A2 seal injection	Not Vented	Type C	Note 5, 7d, 9
24a	RB H <sub>2</sub> Analyzer Train A	Vented	Type C	Note 7c
24b	RC H <sub>2</sub> Analyzer Train A	Vented	Type C	Note 7c
25	OTSG B Feedwater line	Not Vented	None required	Note 5
26	OTSG A Main steam line	Not Vented	None required	Note 5
27	OTSG A Feedwater line	Not Vented	None required	Note 5
28	OTSG B Main steam line	Not Vented	None required	Note 5

TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
29	Quench tank drain line	Note 1	Type C	Note 3, 7b, 9
30, 31, 32	LPSW for RB Cooling units inlet line	Not Vented	None required	Note 5
33, 34, 35	LPSW for RB cooling units outlet line	Not Vented	None required	Note 5
36, 37	RB emergency sump recirculation line	Not Vented	None required	Note 5
38	Quench tank cooler inlet line	Note 1	Type C	Note 2, 7d, 12
39a (Unit 2, 3 only)	CFT Vent Line	Note 1	None Required	Note 3
39b	HP Nitrogen supply	Note 1	Type C	Note 2, 3, 13
40	RB emergency sump drain line	Note 1	None required	
41	Instrument air supply & ILRT verification line	Vented	None required	Note 3



TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
42a	RB H <sub>2</sub> Analyzer Train B	Vented	Type C	Note 7c
42b	RB H <sub>2</sub> Analyzer Train B	Vented	Type C	Note 7c
43	OTSG A drain line	Note 1	None required	Note 7b
44	Component cooling to control rod drive inlet line	Note 1	Type C	Note 3, 7d
45a	ILRT instrument line	Vented	Type C	Note 3, 7a
45b	ILRT instrument line	Vented	Type C	Note 3, 7a
45c (Units 2 & 3)	ILRT instrument line	Vented	Type C	Note 3, 7a
46	Reactor head-wash filtered water inlet	Note 1	Type C	Note 3, 9
47 (Unit 1 only)	Demineralized water supply to RC pump seal vents	Note 1	Type C	Note 3, 7d
48	Breathing air inlet	Vented	None required	Note 3
49 (Unit 1 only)	LP Nitrogen supply	Vented	None required	Note 3

TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
50	OTSG A Emergency FDW line	Not Vented	None required	Note 5
51	ILRT Pressurization line	Vented	None required	Note 6a, 7a
52	HP Injection to 'B' loop	Not Vented	None required	Note 5
53a (All)	HP Nitrogen supply to 'A' core flood tank	Note 1	Type C	Note 2, 3, 7d, 13
53b (Units 2, 3)	LP Nitrogen supply	Vented	None required	Note 2, 3, 7d
54	Component cooling outlet line	Note 1	Type C	Note 3, 7b, 9(8)
55	Demineralized water supply	Note 1	Type C	(Unit 1) Note 3, 12 (Unit 2,3) Note 3, 9
56	Spent fuel canal fill and drain	Note 1	None required	Note 3
57 (Unit 1 only)	DHR return line	Not vented	None required	Note 4
58a (Unit 2, 3)	Pressurizer sample line	Note 1	Type C	Note 2, 7b
58b (All)	OTSG B sample line	Note 1	Type C	Note 7b

TABLE 16.6-1  
LIST OF PENETRATIONS WITH 10CFR50,  
APPENDIX J TEST REQUIREMENTS

PENETRATION NUMBER	SYSTEM	TYPE A TEST SYSTEM CONDITION	LOCAL LEAK TEST	REMARKS
59	CF tank sample line	Note 1	None required	Note 2
60	RB sample line (outlet)	Note 1	Type C	Note 2, 7b, 9
61	RB sample line (inlet)	Note 1	Type C	Note 2, 7b, 9
62 (Units 2, 3 Only)	DHR return line	Not Vented	None required	Note 4
90	Personnel hatch	Vented	Type B	Note 6b
91	Equipment hatch	Vented	Type B	Note 6c
92	Emergency hatch	Vented	Type B	Note 6b
101 through 105	Electrical Penetrations	Vented	Type B	Note 6a, 12

TABLE 16.6-1  
(NOTES)

- NOTE 1 All vented systems shall be drained of water or other fluids to the extent necessary to assure exposure of the system containment isolation valves to containment atmosphere and to assure they will be subjected to the test differential pressure.
- NOTE 2 Fluid system that is part of the reactor coolant pressure boundary or open directly to the containment atmosphere under post-accident conditions (vented to containment atmosphere during Type A test).
- NOTE 3 Closed system inside containment that penetrates containment and postulated to rupture as a result of a loss of coolant accident (vented to containment atmosphere during Type A test).
- NOTE 4 System required to maintain the plant in a safe condition during the test (need not be vented).
- NOTE 5 System normally filled with water or under pressure and operating under post-accident condition (need not be vented).
- NOTE 6
- a. Containment penetration whose design incorporates resilient seals, gaskets, or sealant compounds, piping penetration filled with expansion bellows, and electrical penetrations fitted with flexible metal seal assemblies.
  - b. Air lock door seals including door operating mechanisms which are part of the containment pressure boundary
  - c. Doors with resilient seals or gaskets except for seal welded doors.
  - d. Components other than those above which must meet the acceptance criteria of Type B tests.
- NOTE 7
- a. Isolation valves provide a direct connection between the inside and outside atmospheres of the primary reactor containment under normal operation, such as purge and ventilation, vacuum relief, and instrument valves.
  - b. Isolation valves are required to close automatically upon receipt of a containment isolation signal in response to controls intended to affect containment isolation.

TABLE 16.6-1  
(NOTES)

- c. Isolation valves are required to operate intermittently under post accident conditions.
- d. Check valve(s) used for containment isolation.

NOTE 8 DELETED

NOTE 9 Reverse direction test of inside containment isolation valve authorized. Leakage results are conservative.

NOTE 10 System is submerged during post-accident conditions and performance of Type A test. System will be drained to the extent possible.

NOTE 11 Type B test performed on the blind flanges inside the Reactor Building. Valves outside the containment are not tested.

NOTE 12 A one-time extension from the local leak test and corresponding exemption from Section III D.2 and III.D.3 of Appendix J to 10 CFR Part 50 is granted such that it be performed during the 1983 Unit 1 refueling outage, provided that such outage begins no later than July 16, 1983.

NOTE 13 The requirements to perform a Type A test in accordance with Notes 1 and 3 of Table 4.4-1, will commence during the end of cycle 12 refueling outage on Unit 1, and during the end of cycle 11 refueling outages on Units 2 and 3. For the Type C test, the initial test will be performed on Unit 1 during the end of cycle 12 refueling outage, on Unit 2 no later than January 15, 1990, and during the end of cycle 11 refueling outage, on Unit 3. On Units 2 and 3, until Type C testing is performed, these penetrations may be utilized provided that compensatory measures described in W. H. Owen's September 29, 1989 letter and H. B. Tucker's October 4, 1989 letter are implemented.